BRUHAT BENGALURU MAHANAGARA PALIKE, YELAHANKA DIVISION

Bruhat Bengaluru Mahanagara Palike

Name of work: Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division" Est cost Rs. 200 Lakhs

QUALITY CONTROL REPORTS

"THIRD & FINAL BILL "

Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.						
Quality Control Abstract						
Job code:003-20-000076						
Bill Number: Third &Part Bill						
Name of contractor: M/s KRIDL, Bangalore						
Sl No.	Description of Materials	Test	No of Units Tested	No of samples conducted	Test result	Remarks
1	Bitumen	IS: 73-1992, IS: 2386(Part I to IV)-1963, MORTH	Per Batch	Per Batch	Satisfactory	-

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM/BIT VG-30 **Date: 18-07-2022**

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.
Name of Agency/ contractor: M/s KRIDL, Bangalore.
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25⁰ C	**53.10⁰ C**	Min. 45
2.	Ductility Value at 25⁰ C	**108.50 cm**	40
3.	Flash point	**245⁰ C**	Minimum 220⁰ C
4.	Softening point	**52.10⁰ C**	Min. 47

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MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/PKG 7/BIT VG-30 **Date: 18-07-2022**

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Dense Graded Bituminous Macadam.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**22.10%**	Not more than 27.00 % for DBM
2.	Combined Flakiness and Elongation index, %	**25.14%**	Not more than 35.0 %
3.	Water absorption, %	**0.45%**	Not more than 2.0 %
4.	Specific gravity	**2.62**	-------
5.	Soundness	**6.79 %**	Max. 12 % in Sodium Sulphate

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT-EX **Date: 18-07-2022**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	96.24	90-100
19.0	81.16	71-95
13.20	74.41	56-80
4.75	48.71	38-54
2.36	36.04	28-42
0.300	17.89	7-21
0.075	6.39	2-8

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT-STB **Date: 18-07-2022**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1239**	900
2	Marshall Flow at 60°C, mm.	**3.20**	2.0 - 4.0

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT-EX

Date: 18-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.
Name of Agency/ contractor: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.50 %**
2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**96.44**	90-100
19.0	**80.56**	71-95
13.20	**72.61**	56-80
4.75	**47.09**	38-54
2.36	**35.79**	28-42
0.300	**18.26**	7-21
0.075	**5.16**	2-8

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SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE: 9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT

Date: 18-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1255**	900
2	Marshall Flow at 60°C, mm.	**3.42**	2.0 - 4.0

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT-EX **Date: 18-07-2022**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.56 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	97.13	90-100
19.0	82.12	71-95
13.20	71.42	56-80
4.75	48.68	38-54
2.36	32.07	28-42
0.300	18.88	7-21
0.075	6.58	2-8

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT-STB

Date: 18-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1250	900
2	Marshall Flow at 60°C, mm.	3.45	2.0 - 4.0

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SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT-EX

Date: 18-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.55 %**

2. **Gradation Test**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	95.00	90-100
19.0	82.35	71-95
13.20	74.85	56-80
4.75	46.95	38-54
2.36	33.90	28-42
0.300	17.15	7-21
0.075	6.40	2-8

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT-STB

Date: 18-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1242**	900
2	Marshall Flow at 60°C, mm.	**3.35**	2.0 - 4.0

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MOBILE: 9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT-VG-30

Date: 19-07-2022

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25° C	**51.10° C**	Min. 45
2.	Ductility Value at 25° C	**108.0 cm**	40
3.	Flash point	**238° C**	Minimum 220° C
4.	Softening point	**50.55° C**	Min. 47

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT-CA **Date: 19-07-2022**

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**22.83 %**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**27.57%**	Not more than 35.0 %
3.	Water absorption, %	**0.40%**	Not more than 2.0 %
4.	Specific gravity	**2.61**	-------
5.	Soundness	**5.30%**	Max. 12 % in Sodium Sulphate

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SHRIYA CONSTRUCTION AND CONSULTANCY
MOBILE: 9945744759
#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT -EX

Date: 19-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.40 %**

2 **Gradation Test**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	97.25	90-100
9.5	82.10	70-88
4.75	65.50	53-71
2.36	52.70	42-58
1.18	40.35	34-48
0.600	34.75	26-38
0.300	23.60	18-28
0.150	18.25	12-20
0.075	7.15	4-10

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MOBILE:9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT-STB **Date: 19-07-2022**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1360**	900
2	Marshall Flow at 60°C, mm.	**3.50**	2.0 - 4.0

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

BBMP/YD/G RAM /BIT-STB **Date: 19-07-2022**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Name of Work :- Asphalting to roads at Sai Archade,G Ramaiah, and surrounding areas in ward no -03 Yelahanka Satellite Town sub Division.

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: M/s KRIDL, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1350**	900
2	Marshall Flow at 60°C, mm.	**3.45**	2.0 - 4.0

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